Distributed by:

JAMECO® ELECTRONICS

www.Jameco.com ✦ 1-800-831-4242

The content and copyrights of the attached material are the property of its owner.

MJTP SERIES 6MM THRU-HOLE MTG. TACT SWITCHES

FEATURES

- Numerous single pole-single throw momentary configurations.
- Excellent tactile feed-back (Snap dome).
- Ultra-compact size.
- Long operating life for high reliability.
- Molded-in terminals minimize wicking of flux or solder.

MATERIALS

Gold plating available on contacts & terminals - consult factory.

Case:	Thermoplastic, color black.
Actuator:	Thermoplastic, color black unless otherwise specfied.
Cover/Bracket:	PET film, tin plated brass or stainless steel.
Terminals:	Silver plated brass.
Shorting Contact:	Phosphor bronze or stainless steel with silver plating.
L.E.D. rating:	Forward voltage- 2.1 V (3.0 V Max.). Cont. fwd. current 20mA max.@ 25°C.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

GENERAL SPECIFICATIONS

ELECTRICALS

Contact rating:	50 mA @ 12 VDC
Insulation resistance:	100 megohms min. (100 VDC)
Dielectric withstanding voltage:	250 VAC for 1 minute
Contact resistance:	100 milliohms max. @ 5 VDC, 10 mA
Electrical life:	100,000 cycles min. (except models MJTP1243 & 1250- 50,000 cycles) 1,000,000 cycles available - consult factory
Contact bounce:	less than 10 msec.

MECHANICALS, THERMALS, ENVIRONMENTALS

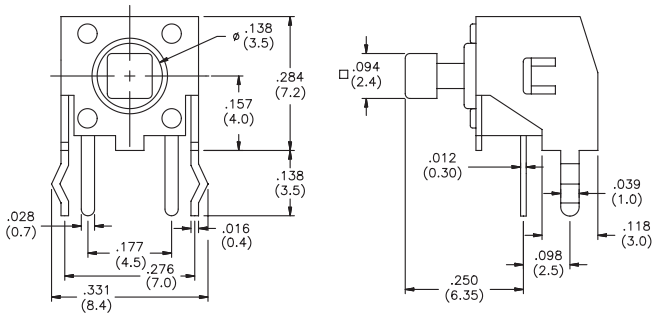
Plunger travel:	.010"+ .008", - .004" (0,25 +0,2, -0,1 mm)
Actuation force:	160 grams ±30 grams
Operating temperature range:	-20°C to +70°C
Storage temperature range:	-30°C to +80°C for 96 hours
Shock resistance:	30G per method 213, MIL-STD-202
Vibration resistance:	passes method 201, MIL-STD-202

SOLDERING (note - non-washable except for models indicated 'process compatible' below).

IR reflow soldering:	240°C max. for 20 seconds max.
Wave soldering:	255°C max. for 5 seconds max.
Hand soldering:	320°C max. for 3.5 seconds max. (40 watt iron max.)

MJTP1105T

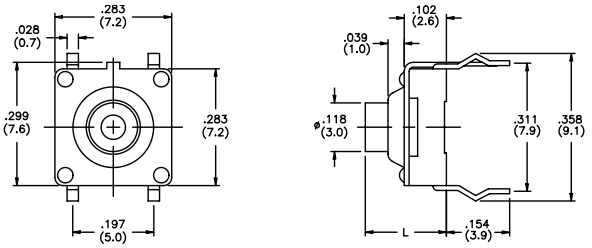
Right angle, grounding



Caps available - see end of section. Bulk packaged.

MJTP1109

Process compatible, grounding



Model No.	Dim. L (In./mm)
MJTP1109	.197 (5.0)
MJTP1109A	.354 (9.0)
MJTP1109B	.512 (13.0)

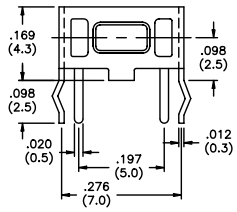
Bulk packaged.

F

MJTP1117

Right angle, grounding

New!

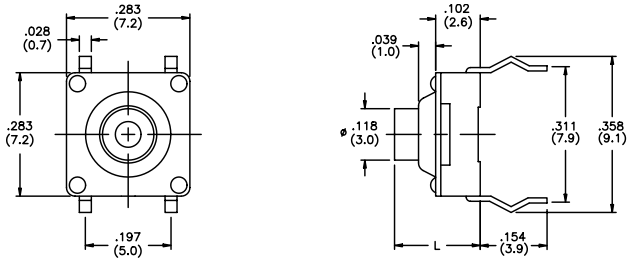


Bulk packaged.

MJTP1119

Process compatible

New!

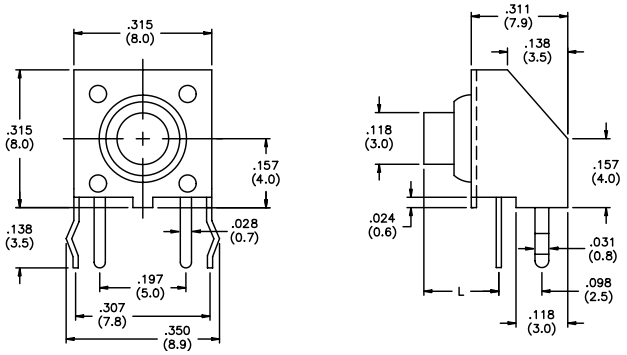


Model No.	Dim. L (in./mm)
MJTP1119	.197 (5.0)
MJTP1119A	.354 (9.0)
MJTP1119B	.512 (13.0)

Bulk packaged.

MJTP1129

Right angle, grounding, process compatible

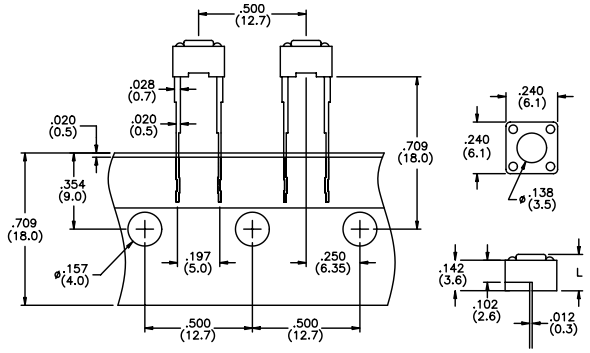


Model No.	Dim. L (in./mm)
MJTP1129	.171 (4.35)
MJTP1129A	.329 (8.35)
MJTP1129B	.486 (12.35)

Bulk packaged.

MJTP1141

Long terminals



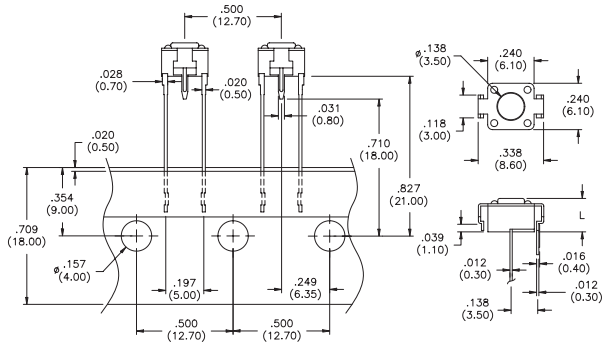
Model No.	Dim. L (in./mm)
MJTP1141	.169 (4.3)
MJTP1141A	.197 (5.0)

Packaged on tape. Note: other models available with this tape packaging - consult factory.

MJTP1144

Long terminals, grounding

New!



Model No.	Dim. L (in./mm)
MJTP1144	.169 (4.3)
MJTP1144A	.197 (5.00)

Caps available - see end of section. Bulk packaged.

F

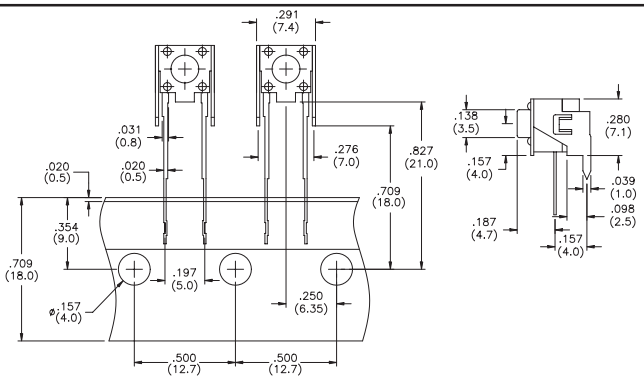
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

MJTP1145

Right angle, grounding

New!



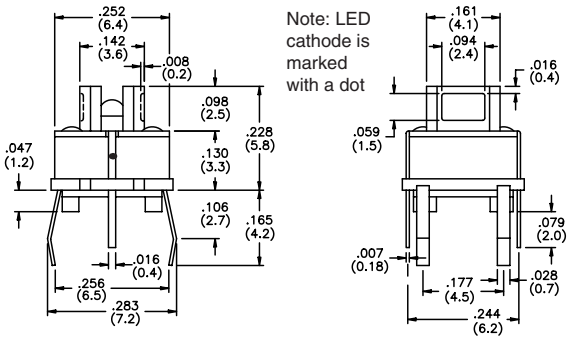
Model No.	Actuator Color
MJTP1145	Black
MJTP1145W	Gray

Bulk packaged.

MJTP1193

With L.E.D.

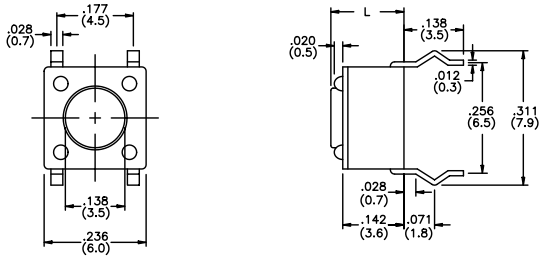
New!



Model No.	L.E.D. Color
MJTP1193	No L.E.D.
MJTP11936	Red
MJTP11935	Yellow
MJTP11933	Green

Caps available with lens - see end of section.
Bulk packaged.

MJTP1230

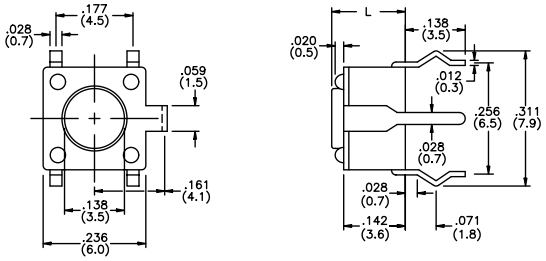


Model No.	Dim. L (in./mm)
MJTP1230	.170 (4,3)
MJTP1230A	.197 (5,0)
MJTP1230B	.374 (9,5)
MJTP1230C	.315 (8,0)
MJTP1230D	.512 (13,0)
MJTP1230E	.287 (7,3)
MJTP1230F	.335 (8,5)
MJTP1230G	.275 (7,0)

Bulk packaged.

MJTP1232

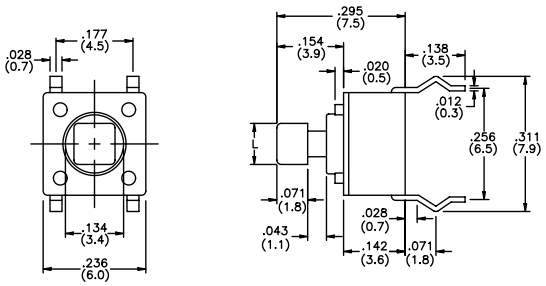
Grounding



Model No.	Dim. L (in./mm)
MJTP1232	.170 (4,3)
MJTP1232A	.197 (5,0)
MJTP1232B	.374 (9,5)
MJTP1232C	.315 (8,0)
MJTP1232D	.512 (13,0)
MJTP1232E	.287 (7,3)
MJTP1232F	.335 (8,5)
MJTP1232G	.275 (7,0)

Bulk packaged.

MJTP1234



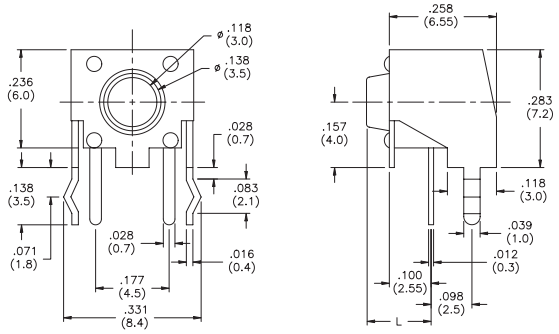
Model No.	Dim. L (in./mm)
MJTP1234	.094 (2,4)
MJTP1234A	.110 (2,8)

Caps available - see end of section.
Bulk packaged.

F

MJTP1236

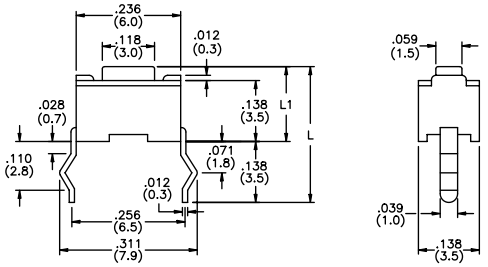
Right angle, grounding



Model No.	Dim. L (in./mm)
MJTP1236	.124 (3,1)
MJTP1236A	.152 (3,9)
MJTP1236B	.329 (8,4)
MJTP1236C	.270 (6,9)
MJTP1236D	.466 (11,9)
MJTP1236E	.244 (6,2)
MJTP1236F	.289 (7,3)
MJTP1236G	.230 (5,8)

Bulk packaged.

MJTP1243 & MJTP1250

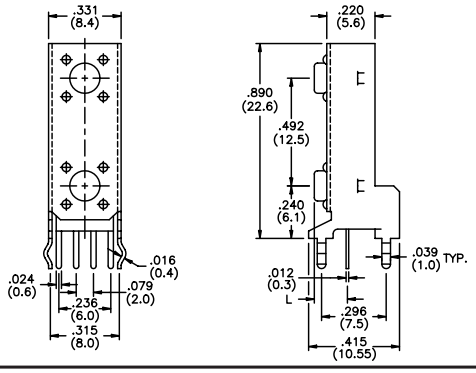


Model No.	Dim. L1 (in./mm)	Dim. L (in./mm)
MJTP1243	.169 (4,3)	.307 (7,8)
MJTP1250	.197 (5,0)	.335 (8,5)

Bulk packaged.

MJTP2205

2 switch vertical gang assembly, black actuators

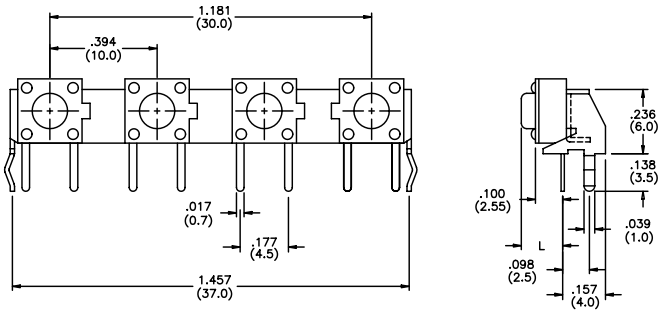


Model No.	Dim. L (in./mm)
MJTP2205	.124 (3,15)
MJTP2205A	.152 (3,85)
MJTP2205B	.329 (8,35)
MJTP2205C	.270 (6,85)
MJTP2205D	.466 (11,85)
MJTP2205E	.242 (6,15)

Bulk packaged.

MJTP4102

4 switch horizontal gang assembly, black actuators

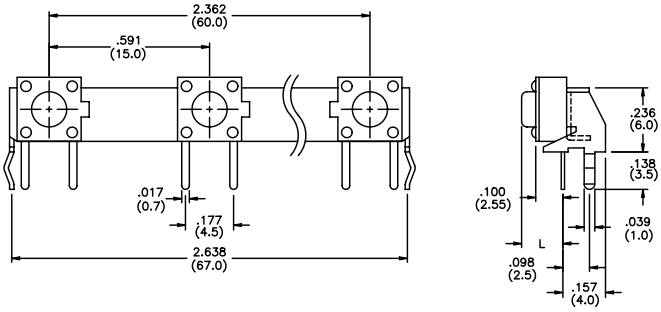


Model No.	Dim. L (in./mm)
MJTP4102	.125 (3,2)
MJTP4102A	.152 (3,85)
MJTP4102B	.329 (8,35)

Bulk packaged.

MJTP5302

5 switch horizontal gang assembly, black actuators



Model No.	Dim. L (in./mm)
MJTP5302	.125 (3,2)
MJTP5302A	.152 (3,85)
MJTP5302B	.329 (8,35)

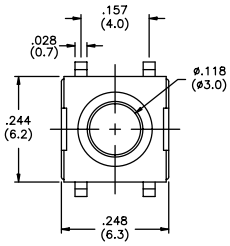
Bulk packaged.

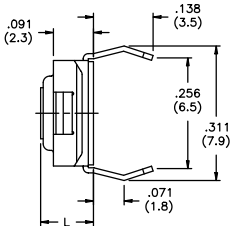
F

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

APEM, PO BOX 8288, HAVERHILL, MA USA 01835-0788 TOLL FREE: (877) 246-7890 FAX: (781) 245-4531 E-mail: info@apem.com

MJTPSHW
Process compatible



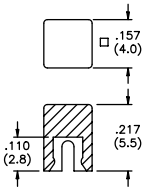


Model No.	Dim. L (in./mm)
MJTPSHW	.122 (3,1)
MJTPSHWA	.091 (2,3)
MJTPSHWB	.146 (3,7)

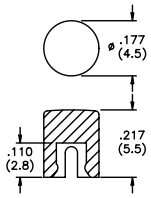
Bulk packaged.

CAPS (for MJTP1105T and MJTP1234 only)

MJ61 Square cap

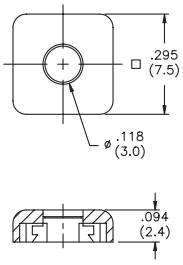


MJ62 Round cap



CAPS (for MJTP1193 only) *New!*

MJ3 Square cap (w/clear lens in center for LED illumination)



CAP COLORS

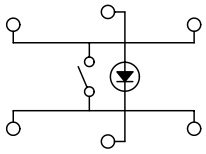
Note - add digit from table to cap part number for color. Example - **MJ612** indicates square black cap.

No.	Color
1	blue
2	black
3	green
5	yellow
6	red
7	ivory

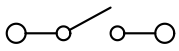
SCHEMATICS

MJTP1109
MJTP1119
MJTP1193
MJTP1230
MJTP1232
MJTP1234
MJTP2205
MJTP4102
MJTP5302
MJTPSHW

Note: LED is for MJTP1193 only.

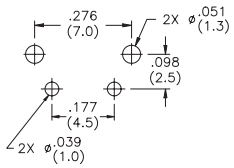


MJTP1105
MJTP1117
MJTP1129
MJTP1141
MJTP1144
MJTP1145
MJTP1236
MJTP1243
MJTP1250
MJTP5302

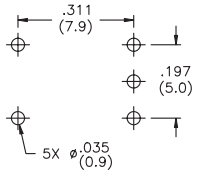


PRINTED CIRCUIT BOARD LAYOUTS

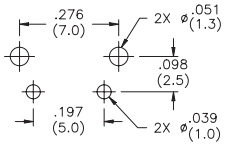
Layout tolerances; Linear: ± .004" (± 0,1MM) Holes: ± .002" (± 0,05MM)



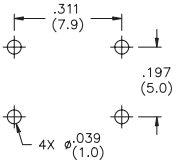
MJTP1105T



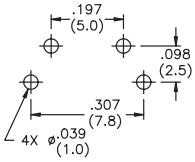
MJTP1109



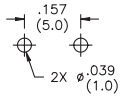
MJTP1117



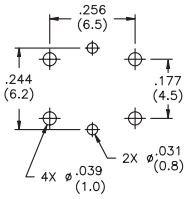
MJTP1119



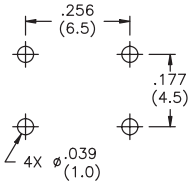
MJTP1129



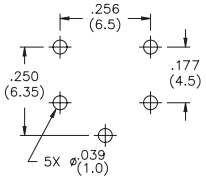
MJTP1141, 44 & 45



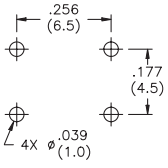
MJTP1193



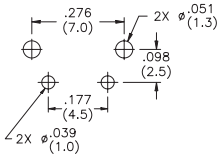
MJTP1230



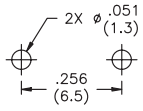
MJTP1232



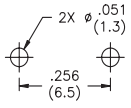
MJTP1234



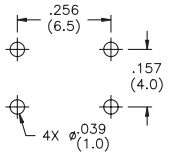
MJTP1236



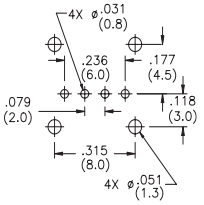
MJTP1243



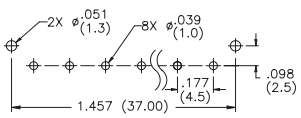
MJTP1250



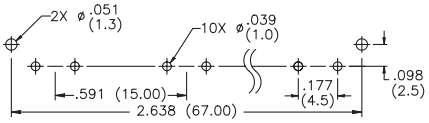
MJTPSHW



MJTP2205



MJTP4102



MJTP5302

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

F